| <br> | of Cla |  |
|------|--------|--|
|      |        |  |

Application/Control No.

10/751,313 Examiner

Minh N. Tang

Date

Applicant(s)/Patent under Reexamination

SCHOTTLER, JOSEPH J.

Art Unit

2829

| <b>√</b> | Rejected |
|----------|----------|
| 1        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| Cla         | im       |          |                |  |          | Date         | e        |              |              |              |   | Cla       | im              |          |  |          |              | Da |
|-------------|----------|----------|----------------|--|----------|--------------|----------|--------------|--------------|--------------|---|-----------|-----------------|----------|--|----------|--------------|----|
| Final       | Original | 3/17/05  |                |  |          |              |          |              |              |              |   | Final     | Original        |          |  |          |              |    |
|             | 1        | =        | _              |  | T        | _            | _        | <u> </u>     |              |              |   |           | 51              |          |  |          |              | T  |
|             | 2        | =        |                |  |          |              |          |              |              |              | 1 |           | 52              |          |  |          |              | Γ  |
|             | 3        | =        |                |  |          |              |          |              |              |              | 1 |           | 53              |          |  |          |              | Γ  |
|             | 4        | =        |                |  | П        |              |          |              |              |              |   |           | 54              |          |  |          |              | Γ  |
|             | 5        | =        |                |  | Γ        |              |          |              |              |              | 1 |           | 55              |          |  |          |              | Γ  |
|             | 6        | =        |                |  |          |              |          |              |              |              |   |           | 56              |          |  |          |              | Γ  |
|             | 7        | =        |                |  |          |              |          |              |              |              |   |           | 57              |          |  |          |              | Γ  |
|             | 8        | =        |                |  |          |              |          |              |              |              |   |           | 58              |          |  |          |              |    |
|             | 9        | =        |                |  |          |              |          |              |              |              |   |           | 59              |          |  |          |              | Γ  |
|             | 10       | -        |                |  |          |              |          |              |              |              |   | L         | 60              |          |  |          |              |    |
|             | 11       |          |                |  |          |              |          |              |              |              |   |           | 61              |          |  |          | L            |    |
|             | 12       |          |                |  |          |              |          |              |              |              |   |           | 62              |          |  |          | L            |    |
|             | 13       |          |                |  |          |              |          |              |              |              |   |           | 63              |          |  |          | L            | L  |
|             | 14       |          |                |  | ļ        |              | L        |              |              | <u> </u>     |   |           | 64              |          | L  | _        | 匚            | L  |
|             | 15       |          |                |  |          | _            |          |              |              |              |   |           | 65              |          | L  |          | 匚            | L  |
|             | 16       |          |                |  | _        |              |          | _            |              |              |   |           | 66              |          | L  |          | L            | L  |
| <u></u>     | 17       |          |                | <u> </u>                                     | _        |              |          |              |              |              |   |           | 67              |          | ·  |          | L            | L  |
|             | 18       |          |                |  |          | _            | L        |              |              |              |   |           | 68              |          |  |          | L            | L  |
|             | 19       |          |                |  |          |              |          |              |              |              | 1 |           | 69 <sup>-</sup> |          | _  | _        |              | L  |
|             | 20       |          |                |  |          |              |          |              |              | <u> </u>     | J |           | 70              |          | L  |          | L            | L  |
|             | 21       |          |                |  | L        |              | <u> </u> |              | L            | _            | ļ |           | 71              |          |  |          | L            | L  |
|             | 22       |          |                |  | L        |              |          | <u> </u>     |              |              |   |           | 72              |          |  |          | L            | L  |
|             | 23       |          |                |  |          |              |          | <u></u>      | <u> </u>     | <u> </u>     | j |           | 73              |          |  |          | L            | L  |
|             | 24       |          |                |  |          |              |          |              | _            |              |   |           | 74              |          | 匚  |          | L            | L  |
|             | 25       |          |                |  | L        |              |          |              | _            |              |   |           | 75              |          | _  | _        |              | L  |
|             | 26       |          |                |  |          |              | <u> </u> |              | L            | <u></u>      | 1 |           | 76              |          | L  | 匚        | <u>_</u>     | L  |
|             | 27       | L        |                |  |          |              | L.       | <u> </u>     | _            | _            | 1 |           | 77              |          |  | _        | <u>L</u>     | L  |
|             | 28       |          |                |  |          |              | <u> </u> | <u> </u>     | L            | <u> </u>     | 1 |           | 78              |          | L  | ļ.,      | oxdot        | L  |
|             | 29       |          | _              | L  | ļ        |              | 乚        | L            | <u> </u>     | <u> </u>     | 1 |           | 79              | _        | <u> </u>   | _        | L            | L  |
|             | 30       |          |                | _  | <u> </u> |              | ļ        |              |              | ╙            | 1 |           | 80              | ļ.,,     | _  | _        | L            | L  |
|             | 31       | L        | <u> </u>       | <u> </u>                                     | L.       | L_           | <u> </u> | <u> </u>     |              | ļ            |   |           | 81              | L        | <u> </u>   | L        | ╙            | Ļ  |
|             | 32       | <u> </u> |                |  |          |              | _        | <u> </u>     | <u>L</u>     | L            |   | ļ         | 82              |          | <u> </u>   | _        | <del> </del> | Ļ  |
| ļ           | 33       | _        | _              | <u> </u>                                     | _        | <u>-</u>     | _        | ļ            |              | <u> </u>     | 1 |           | 83              |          | <u> </u>   | <u> </u> | ⊢            | ╀  |
|             | 34       | _        |                | <u> </u>                                     | <u> </u> | <u> </u>     | ├_       | <u> </u>     | ļ            | ├-           | ł |           | 84              |          | _  |          | ⊢            | ╀  |
|             | 35       | ├        | <u> </u>       | <u> </u>                                     | L        | _            | <u> </u> | ┞            | <u> </u>     | _            | ∤ |           | 85              | _        |  | -        | ├—           | ╀  |
| ļ           | 36       | <u> </u> | _              | <u> </u>                                     | <u> </u> | <u> </u>     | <u> </u> | <b> </b>     | _            | ⊢            | 1 |           | 86              | _        | <u> </u>   | <u> </u> | ļ            | ╀  |
|             | 37       | <u> </u> | <u> </u>       | <u> </u>                                     | <u> </u> | ┞-           | ├-       | ļ            | ļ            | <u> </u>     | ł |           | 87              |          | _  | <u> </u> | -            | ╀  |
|             | 38       | ļ        | <u> </u>       | ļ  | -        | <u> </u>     | ┡        | ├            | <u> </u>     |              | 1 |           | 88              | _        | _  | <u> </u> | <u> </u>     | ╀  |
| <u> </u>    | 39<br>40 | ├—       | _              | <u> </u>                                     | ⊢        | ⊢            | ├        | ├            | <u> </u>     | ┝            | ł |           | 89              | <u> </u> | <u> </u>   |          | <u> </u>     | ╀  |
|             |          | -        |                | <u> </u>                                     | ⊢        | -            | -        | ⊢            | ⊢            | ⊢            | ł |           | 90              | <u> </u> | <del>                                     </del> | $\vdash$ | -            | ╀  |
| <u> </u>    | 41       | ├        | -              | -  | ⊢        | <u> </u>     | ├-       | -            | <u> </u>     | ├            | ┨ |           | 91              | -        | ├—   | ⊢        | -            | ╀  |
| -           | 42       | -        |                | -  | <u> </u> | ├-           | ├        | ├            | -            | ├-           | { |           | 92              | <u> </u> | ⊢  |          | ├            | ╀  |
| <u> </u>    | 43       | -        | ├              |  | -        | -            | $\vdash$ | $\vdash$     | <u> </u>     | <del> </del> | ł | <u> </u>  | 93              | $\vdash$ | ├  |          | -            | ╀  |
| <u> </u>    | 44       | $\vdash$ | -              |  | -        | $\vdash$     | -        | -            | <del> </del> | -            | 1 | <u> </u>  | 94              |          | -  | ŀ        | $\vdash$     | +  |
| <u> </u>    | 45       | $\vdash$ | -              | $\vdash$                                     | $\vdash$ | $\vdash$     |          | -            | -            | $\vdash$     | 1 | <b></b> - | 95              | $\vdash$ | $\vdash$   | $\vdash$ | ├-           | ╀  |
| <del></del> | 46       | -        | $\vdash$       | $\vdash$                                     | -        | <del> </del> | ┰        | <del> </del> | 1—           | <del> </del> | 1 |           | 96              | ├        | -  |          | ┼            | +  |
| <u> </u>    | 47       | $\vdash$ | <del>  -</del> |  | ├        | -            | $\vdash$ | $\vdash$     |              | -            | 1 | <u> </u>  | 97              | ├-       | $\vdash$   |          | ├            | ╀  |
| -           | 48       | ├        | -              |  |          | $\vdash$     | -        | -            | ⊢            | -            | 1 | -         | 98              | -        | <del> </del>                                     | ├        | ╀            | ╀  |
|             | 49       | ├        | $\vdash$       | $\vdash$                                     | $\vdash$ | -            | ├        | -            | -            | -            | 1 |           | 99<br>100       | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     | +  |
| L           | 50       | <u> </u> | L              | <u>.                                    </u> | _        | Щ            |          | Ц_           |              | Ц.           | J |           | 1100            |          | <u> </u>   |          | L            | L  |

|          | Ciaiin   |  |  | Date   |  |              |  |          |          |          |  |  |  |
|----------|----------|--|--|--|--|--------------|--|----------|----------|----------|--|--|--|
| Final    | Original |  |  |  |  |              |  |          |          |          |  |  |  |
| 1        | 51       |  | _  | _  | _  | _            | _  |          |          |          |  |  |  |
| $\vdash$ | 5        |  |  |  |  |              |  |          |          | -        |  |  |  |
| <u> </u> | 52       | $\vdash$   |  |  |  |              | _  | _        |          |          |  |  |  |
|          | 53       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 54       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 54<br>55 |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 56       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 57       |  |  |  |  | -            | _  |          |          |          |  |  |  |
|          | 58       |  | _  | _  | _  | _            |  |          |          |          |  |  |  |
| -        | 59       |  | _  | _  | _  | _            |  |          | $\vdash$ | _        |  |  |  |
| <b>—</b> | 09       |  | _  |  |  |              |  |          | -        |          |  |  |  |
| <u> </u> | 60       |  | _  | _  | _  |              |  |          |          |          |  |  |  |
|          | 61       |  |  |  |  |              |  |          |          |          |  |  |  |
| <u></u>  | 62       |  | _  |  |  |              |  |          | _        |          |  |  |  |
|          | 63       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 64       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 65       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 66       |  |  |  |  |              | П  |          |          |          |  |  |  |
|          | 67       |  | $\overline{}$                                    |  |  |              |  |          |          |          |  |  |  |
| -        | 68       | 1  | _  |  |  |              |  |          |          |          |  |  |  |
|          | 69       | -  |  |  |  | -            | $\vdash$   | 7        | -        |          |  |  |  |
|          | 70       | $\vdash$   | _  |  |  |              | $\vdash$   |          |          | -        |  |  |  |
|          | 71       | ┢  | ⊢  |  | _  | _            | -  |          |          | _        |  |  |  |
|          | 71<br>72 | ┝  | $\vdash$   | _  |  | <del> </del> | ┝  |          |          |          |  |  |  |
|          | 73       | _  | _  | _  | _  | -            |  | _        |          | -        |  |  |  |
|          | 74       | -  | $\vdash$   | -  |  | $\vdash$     | -  | _        | -        |          |  |  |  |
| _        | 75       | $\vdash$   | $\vdash$   | $\vdash$   |  | $\vdash$     | -  | _        |          | -        |  |  |  |
| -        | 76       | H  | $\vdash$   | $\vdash$   | -  | ├            |  | _        |          |          |  |  |  |
| $\vdash$ | 76<br>77 | $\vdash$   | ┝  | ⊢  | <del>-</del>                                     | -            | -  |          |          |          |  |  |  |
| -        | 78       |  | -  | -  | -  | <del> </del> | $\vdash$   |          |          |          |  |  |  |
| -        | 70       |  | -  | -  | $\vdash$   | H            | H  |          |          | _        |  |  |  |
| -        | 79       | _  | -  | <u> </u>   | ┝  | _            |  | _        | -        | _        |  |  |  |
| <u> </u> | 80       | ļ  | <u> </u>   | _  | _  | <u> </u>     | _  | _        | _        | _        |  |  |  |
| <u> </u> | 81       | L  | _  | _  | L  |              |  |          |          |          |  |  |  |
| <u></u>  | 82<br>83 | L  |  | <u> </u>   | <u> </u>   | _            | _  |          | L        |          |  |  |  |
|          | 83       |  | L  | L  | $oxed{oxed}$                                     |              |  | <u> </u> |          |          |  |  |  |
|          | 84       | $\Box$   | L  | L  | _  |              |  |          |          |          |  |  |  |
|          | 85       |  | $L^{-}$  | L  |  |              |  |          |          |          |  |  |  |
|          | 86       |  |  |  |  | L            |  |          |          |          |  |  |  |
|          | 87       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 88       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 89       | Γ  |  |  |  | $\Box$       | Г  |          |          |          |  |  |  |
|          | 90       |  |  |  |  |              |  |          |          |          |  |  |  |
|          | 91       | Т  | $\vdash$   |  | T  | $\vdash$     | Т  | П        | Г        | $\vdash$ |  |  |  |
|          | 92       |  | <del>                                     </del> |  |  | $\vdash$     |  | $\vdash$ | _        |          |  |  |  |
| -        | 93       | Г  |  | <del>                                     </del> | $\vdash$   | Г            |  |          |          |          |  |  |  |
|          | 94       | Г  | Т  | Π.   |  |              |  |          | T        |          |  |  |  |
|          | 95       |  | _  | Ť  | T  | $\vdash$     | <del>                                     </del> | $\vdash$ | _        | $\neg$   |  |  |  |
|          | 96       |  |  | Т  | $\vdash$   | T            |  |          | _        | М        |  |  |  |
|          | 97       | $\vdash$   | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <u> </u>     | <u> </u>   |          | Г        | $\vdash$ |  |  |  |
|          | 98       | <del>                                     </del> | $\vdash$   | <del> </del>                                     |  | -            |  | -        | $\vdash$ | 1        |  |  |  |
| -        | 99       | Ι-   |  | $\vdash$   | $t^-$  | $\vdash$     | 一  | -        |          | $\vdash$ |  |  |  |
| -        | 100      | $\vdash$   |  |  | $\vdash$   | _            | <del>                                     </del> | $\vdash$ | -        | $\vdash$ |  |  |  |

| Cli      | aim  | Date   |          |              |          |          |          |          |              | $\neg$          |
|----------|--|--|----------|--------------|----------|----------|----------|----------|--------------|-----------------|
|          |  |  |          |              |          |          |          |          |              |                 |
| Final    | Original   |  |          |              |          |          |          |          |              |                 |
|          | 101<br>102<br>103<br>104<br>105                      |  |          |              |          |          |          |          |              |                 |
|          | 102  |  |          |              |          |          |          |          |              |                 |
|          | 103  |  |          |              |          |          |          |          |              |                 |
|          | 104  |  |          |              |          |          |          |          |              | $\Box$          |
|          | 105  |  |          |              |          | _        |          | -        | _            | $\dashv$        |
|          | 106<br>107   |  |          |              |          |          |          |          |              | $\dashv$        |
|          | 107  |  |          |              |          |          | -        | _        |              | $\dashv$        |
|          | 108  | _  | _        |              |          |          | _        | _        | _            | $\dashv$        |
|          | 110  | -  | _        | -            | _        |          |          | -        |              | $\dashv$        |
|          | 111  | _  |          |              | _        | _        | -        |          |              | $\dashv$        |
|          | 112  |  |          | -            |          | -        |          |          |              | $\dashv$        |
|          | 113  |  |          |              |          |          |          |          |              | $\vdash \vdash$ |
|          | 114  |  |          |              |          |          |          |          |              | $\vdash$        |
|          | 115  |  |          |              |          |          |          |          |              |                 |
|          | 109<br>110<br>111<br>112<br>113<br>114<br>115<br>116 |  |          |              |          |          |          |          |              |                 |
|          | 117  |  |          |              |          |          |          |          |              |                 |
|          | 117<br>118<br>119                                    |  |          | L            |          |          | L        |          | L            | Ш               |
|          | 119  |  |          |              |          |          |          |          | <u>.</u>     | Щ               |
|          | 120  | _  |          |              |          |          |          |          |              |                 |
|          | 121  | L  |          | _            |          | _        |          |          |              | Ш               |
|          | 122  | -  |          | _            | _        | _        |          | $\vdash$ | $\vdash$     | Н               |
|          | 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127 |  | _        | -            | _        | _        | -        | ⊢        |              | Н               |
|          | 124  | -  | -        | <del> </del> | _        |          | H        | $\vdash$ | $\vdash$     | Н               |
|          | 126  |  | _        | -            | -        | -        | $\vdash$ | $\vdash$ |              | $\vdash$        |
| _        | 127  | -  | -        | $\vdash$     |          |          | H        | H        |              |                 |
|          | 128  |  |          | $\vdash$     |          |          |          | $\vdash$ | _            |                 |
|          | 128<br>129<br>130<br>131<br>132                      |  |          | Г            |          |          |          |          |              |                 |
|          | 130  |  |          |              |          |          |          |          |              |                 |
|          | 131  |  |          |              |          |          |          |          |              |                 |
|          | 132  |  |          |              |          |          |          |          |              |                 |
|          | 133<br>134   |  |          |              |          |          |          | _        | $oxed{oxed}$ | -               |
|          | 134  | <u> </u>   |          | ļ            |          |          | <u> </u> | <u> </u> |              | Щ               |
|          | 135  |  |          | <u> </u>     |          |          | $\vdash$ | ļ        |              | Н               |
|          | 136<br>137<br>138                                    |  |          | <u> </u>     |          |          | <u> </u> | _        | _            | Н               |
| <u> </u> | 137  | -  |          | $\vdash$     |          | -        | ⊢        | $\vdash$ | $\vdash$     | Н               |
|          | 139  |  | _        | ┢            |          |          | ├─       | -        | -            | Н               |
|          | 140  | H  |          | -            | _        | -        | $\vdash$ | -        |              | $\vdash$        |
|          | 141  | -  | _        | -            |          |          | $\vdash$ |          |              | Н               |
|          | 142  | <del>                                     </del> | _        | T            |          |          | Г        | Г        | $\vdash$     | $\vdash \vdash$ |
|          | 143  | Г  | Т        |              | $\Box$   |          |          |          |              |                 |
|          | 144  |  |          |              |          |          |          |          |              |                 |
|          | 145  |  |          |              |          |          |          |          |              |                 |
|          | 146  |  |          |              |          |          |          |          |              |                 |
|          | 147  |  |          |              |          |          |          |          |              | Ш               |
| <u> </u> | 148  | L_   | <u> </u> | <u> </u>     | L_       | $\vdash$ | _        | L_       | _            | Ш               |
| <u> </u> | 149  |  | _        | _            | <u> </u> | <u> </u> |          | <u> </u> | <u> </u>     | Щ               |
| L        | 150  |  | l .      |              | <u> </u> |          |          |          |              |                 |